THE OFFICE OF REGULATORY STAFF DIRECT TESTIMONY & EXHIBITS

OF

ANTHONY D. BRISENO

AUGUST 17, 2018



DOCKET NO. 2018-3-E

ANNUAL REVIEW OF BASE RATES FOR FUEL COSTS OF DUKE ENERGY CAROLINAS, LLC

1		DIRECT TESTIMONY AND EXHIBITS OF
2		ANTHONY D. BRISENO
3		ON BEHALF OF
4		THE SOUTH CAROLINA OFFICE OF REGULATORY STAFF
5		DOCKET NO. 2018-3-E
6		IN RE: ANNUAL REVIEW OF BASE RATES FOR FUEL COSTS OF
7		DUKE ENERGY CAROLINAS, LLC
8		
9	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS AND OCCUPATION.
10	A.	My name is Anthony D. Briseno. My business address is 1401 Main Street, Suite
11		900, Columbia, South Carolina 29201. I am employed by the South Carolina Office of
12		Regulatory Staff ("ORS") as an Auditor.
13	Q.	PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.
14	A.	I received my Bachelor of Science in Business Administration in Accounting from
15		Coastal Carolina University in August 2014. I received my Master of Accountancy Degree
16		from Coastal Carolina University in August 2015. I also received a Graduate Certificate
17		for completion of the Fraud Examination Program at Coastal Carolina University in August
18		2015. I began my employment as an auditor with ORS in October 2016 and have
19		participated in various cases involving the regulation of electric, water and wastewater
20		utilities.
21	Q.	HAVE YOU TESTIFIED PREVIOUSLY BEFORE THE PUBLIC SERVICE
22		COMMISSION OF SOUTH CAROLINA ("COMMISSION")?
23	Α.	Yes, I have previously testified before the Commission on the Fuel Adjustment
24		Clause ("FAC") for the Duke Energy Progress, LLC ("DEP") Docket No. 2018-1-E.

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Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

2 A. The purpose of my testimony is to present the results of ORS Audit Staff's
3 examination of the books and records pertaining to Duke Energy Carolinas, LLC's ("DEC"
4 or "Company") operations under the FAC. The current fuel examination covered the period
5 of June 2017 through May 2018 ("actual review period"). For commission consideration,
6 ORS has included the estimated, unaudited four (4) months from June 2018 through
7 September 2018 ("estimated review period").

8 Q. WHAT WAS THE PURPOSE OF THIS EXAMINATION?

9 A. The purpose of this examination was to determine if the Company's accounting practices in computing and applying the monthly FAC complied with S.C. Code Ann. §§ 58-27-865, 58-39-140, 58-40-20, and prior commission orders.

O. WHAT WAS THE SCOPE OF ORS'S EXAMINATION?

A. ORS Audit Staff examined and verified the monthly fuel adjustment factor calculations and the fuel recovery balances recorded in the Company's books and records.

The Audit Staff's examination consisted of the following:

1. Analyzing the Fuel Stock Account

ORS Audit Staff's analysis of the fuel stock account consisted of verifying receipts to and issuances from the fuel management system to the general ledger, examining monthly fuel charges originating in fuel accounting, and ensuring only proper charges were entered in the Company's computation of fuel costs for purposes of adjusting the base fuel factor.

2. Sampling Receipts to the Fuel Stock Account

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ORS Audit Staff's review of receipts to the fuel stock account consisted of examining and testing selected transactions which support additions to the account. Each transaction examined was tested for mathematical accuracy and vouched to a commodity received report, corresponding waybill or truck bill, supplier invoice, base cost report, freight invoice, and transportation cost report. Transactions were then verified to a fuel management system payment voucher to verify payment of the correct amount to the vendors.

3. Verifying Charges to Nuclear Fuel Expenses

ORS Audit Staff verified the amounts of nuclear fuel expense to the books and records for the actual review period. Additionally, the accuracy of these amounts was verified to the Company's amortization schedules.

4. Verifying Purchased and Interchange Power Fuel Cost

ORS Audit Staff verified the Company's purchased and interchange power fuel cost, kilowatt-hour ("kWh") purchases, and kWh sales for the actual review period to the Company's "Intersystem Purchase and Sales Transaction" reports, individual vendor purchase schedules, and monthly invoices, on a sample basis. This verification included intercompany power transactions related to the Joint Dispatch Agreement between the Company and DEP. ORS recomputed the Company's sales and purchases for the actual review period. The purchased and interchange power amounts for the actual review period and the resultant (over)/under-recovery monthly deferred fuel amounts for the period reflect calculations that conform to S.C. Code Ann. § 58-27-865, the statute addressing fuel costs related to purchased power. Subsection (A)(2)(b) of this statute states that the total delivered cost of economy purchases, including, but not limited to,

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transmission charges, are included in purchased power costs if those purchases are "less than the purchasing utility's avoided variable costs for the generation of an equivalent quantity of electric power." ORS verified that the economic purchases were recorded at, or less than, the company's applicable avoided costs.

5. Verifying kWh Sales

ORS Audit Staff verified total system kWh sales, as filed in the monthly fuel factor computation, to monthly billed revenue reports for the actual review period. The monthly kWh sales figures were then used to determine the fuel cost per kWh.

6. Recalculating the Fuel Adjustment Factors and Verifying the Deferred Fuel Costs

ORS Audit Staff recalculated the fuel costs for the actual review period utilizing information obtained from the Company's records and verified these costs to the Company's books and records. In recalculating the monthly fuel costs, ORS divided adjusted system fuel costs by adjusted system kWh sales to arrive at fuel costs per kWh sold. The fuel costs billed per kWh sold were then subtracted from the actual fuel cost per kWh sold to compute the deferred fuel cost. The actual deferred fuel costs for each month were then verified to the Company's books and records.

7. Recalculating the True-up for the (Over)/Under-Recovered Fuel Costs

ORS Audit Staff analyzed and recomputed the cumulative (over)/under-recovery of the base fuel, environmental, capacity, Distributed Energy Resource Program ("DERP") incremental, and DERP avoided costs for the actual review period and the cumulative (over)/under-recovery for the estimated review period.

AUDIT EXHIBITS ATTACHED TO YOUR PLEASE EXPLAIN THE Q.

TESTIMONY. 23

1	A.	ORS Audit Staff prepared the following audit exhibits from the Company's books
2		and records:
3		AUDIT EXHIBIT ADB-1: TOTAL FUEL RECEIVED AND WEIGHTED
4		AVERAGE COST
5		This audit exhibit details total received cost for the actual review period of \$1,092,212,987
6		for coal, #2 oil, and natural gas. ORS has also computed the weighted average cost of each
7		type of fuel: coal (\$75.45 per ton), #2 oil (\$2.23 per gallon), and natural gas (\$4.13 per
8		thousand cubic feet ("MCF")).
9		AUDIT EXHIBIT ADB-2: RECEIVED COAL - COST PER TON COMPARISON
10		This audit exhibit details the received cost per ton of coal for each month of the actual
11		review period for DEC, DEP, and South Carolina Electric & Gas Company. For
12		comparison purposes, ORS has shown the invoice cost per ton, freight cost per ton, total
13		cost per ton, and the cost per thousand British thermal units ("MBTU").
14		AUDIT EXHIBIT ADB-3: COST OF FUEL BURNED FOR ELECTRIC
15		GENERATION
16		This audit exhibit details the per book cost of fuel burned for electric generation during the
17		actual review period. The burned cost of each class of fuel is shown separately along with
18		its percentage of total burned costs. These costs are used in the computations of the base
19		fuel costs component.
20		AUDIT EXHIBIT ADB-4: COST OF FUEL
21		This audit exhibit details ORS's computation of the total fuel cost applicable to the fuel
22		recovery calculation. There are three (3) components included in this cost and they are as
23		follows:

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1	(1) Cost of Fuel Burned
2	(2) Fuel Cost of Purchased and Interchange Power
3	(3) Fuel Cost Recovered from Intersystem Sales
4	Cost of Fuel Burned - This amount is the total cost of all fossil and nuclear fuel burned
5	during the actual review period and used in the base fuel costs component computation. A
6	detailed breakdown of coal, #2 oil, natural gas, and nuclear fuel can be seen in Audit
7	Exhibit ADB-3.
8	Fuel Cost of Purchased and Interchange Power - This amount is the total fuel cost of
9	monthly kWh purchases from other electric utilities or power marketers.
10	Fuel Cost Recovered from Intersystem Sales - This amount is the total fuel cost recovery
11	related to kWhs sold to other electric utilities or power marketers during the period.
12	AUDIT EXHIBIT ADB-5: DETAILS OF THE COMPUTATION OF THE
12 13	AUDIT EXHIBIT ADB-5: DETAILS OF THE COMPUTATION OF THE (OVER)/UNDER-RECOVERY OF BASE FUEL COSTS
13	(OVER)/UNDER-RECOVERY OF BASE FUEL COSTS
13 14	(OVER)/UNDER-RECOVERY OF BASE FUEL COSTS This audit exhibit details the (over)/under-recovery of base fuel cost computations for the
13 14 15	(OVER)/UNDER-RECOVERY OF BASE FUEL COSTS This audit exhibit details the (over)/under-recovery of base fuel cost computations for the actual and estimated review periods. The exhibit also shows the computations of the actual
13 14 15 16	(OVER)/UNDER-RECOVERY OF BASE FUEL COSTS This audit exhibit details the (over)/under-recovery of base fuel cost computations for the actual and estimated review periods. The exhibit also shows the computations of the actual and estimated cumulative (over)/under-recovery balances and various adjustments for June
1314151617	(OVER)/UNDER-RECOVERY OF BASE FUEL COSTS This audit exhibit details the (over)/under-recovery of base fuel cost computations for the actual and estimated review periods. The exhibit also shows the computations of the actual and estimated cumulative (over)/under-recovery balances and various adjustments for June 2017 through September 2018.
13 14 15 16 17	(OVER)/UNDER-RECOVERY OF BASE FUEL COSTS This audit exhibit details the (over)/under-recovery of base fuel cost computations for the actual and estimated review periods. The exhibit also shows the computations of the actual and estimated cumulative (over)/under-recovery balances and various adjustments for June 2017 through September 2018. AUDIT EXHIBIT ADB-6: TOTAL ENVIROMENTAL COSTS
13 14 15 16 17 18	(OVER)/UNDER-RECOVERY OF BASE FUEL COSTS This audit exhibit details the (over)/under-recovery of base fuel cost computations for the actual and estimated review periods. The exhibit also shows the computations of the actual and estimated cumulative (over)/under-recovery balances and various adjustments for June 2017 through September 2018. AUDIT EXHIBIT ADB-6: TOTAL ENVIROMENTAL COSTS This audit exhibit details the total environmental costs for the actual review period for

AUDIT EXHIBIT ADB-7: DETAILS OF THE COMPUTATION OF THE

(OVER)/UNDER-RECOVERY OF ENVIRONMENTAL COSTS

witness Johnson.

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This audit exhibit details the (over)/under-recovery of environmental cost computations by				
month for the actual and estimated review periods for total environmental costs and off-				
system sales. This exhibit also shows the computation of the cumulative (over)/under-				
recovery of environmental costs for June 2017 through September 2018.				
AUDIT EXHIBIT ADB-8: DETAILS OF THE COMPUTATION OF THE				
(OVER)/UNDER-RECOVERY OF CAPACITY COSTS				
This audit exhibit details the (over)/under-recovery of Public Utility Regulatory Policy Act				
of 1978 ("PURPA") purchased power avoided capacity costs and natural gas capacity costs				
by month for the actual and estimated review periods. Due to the enactment of Act 236,				
effective June 2014, the avoided capacity component of PURPA purchased power costs				
and the natural gas capacity costs are now allocated and recovered as a separate component				
of the overall fuel factor in the same manner as environmental costs. This exhibit also				
shows the computation of the cumulative (over)/under- recovery of capacity costs for June				
2017 through September 2018.				
AUDIT EXHIBIT ADB-9: DETAILS OF THE COMPUTATION OF THE				
(OVER)/UNDER-RECOVERY OF DERP INCREMENTAL COSTS				
This audit exhibit details the (over)/under-recovery of DERP incremental costs by month				
for the actual and estimated review periods. This audit exhibit also shows the computation				

of the cumulative (over)/under-recovery of DERP incremental costs for June 2017 through

September 2018. DERP incremental costs are further explained in the testimony of ORS

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1	AUDIT	EXHIBIT	ADB-10:	DETAILS	OF	THE	COMPUTATION	OF	THE
2	(OVER)	/UNDER-R	ECOVERY	Y OF DERP	AVC	OIDED	COSTS		

- This audit exhibit details the (over)/under-recovery of DERP avoided costs computations by month for the actual and estimated review periods. This audit exhibit also shows the computations of the cumulative (over)/under-recovery of DERP avoided costs for June 2017 through September 2018. DERP avoided costs are further explained in the testimony of ORS witness Johnson.
- PLEASE EXPLAIN ORS AUDIT STAFF'S COMPUTATION OF 8 0. 9 CUMULATIVE (OVER)/UNDER-RECOVERY OF BASE FUEL COSTS IN AUDIT EXHIBIT ADB-5. 10
- ORS Audit Exhibit ADB-5 provides details of ORS's calculation of the actual A. cumulative under-recovery balance through May 2018 of \$64,403,063, and the estimated 12 cumulative under-recovery balance through September 2018 of \$75,453,306. Company 14 witness McGee's testimony (Exhibit 2, pages 1-2) reports a cumulative under-recovery balance through May 2018 of \$64,562,410, and the estimated cumulative under-recovery 15 balance through September 2018 of \$75,612,654. The differences between ORS's and the 16 Company's ending balances for May 2018 and September 2018 are due to ORS accounting 17 adjustment (D) and rounding. 18
- DID THE COMPANY MAKE ANY ADJUSTMENTS OR TRUE-UPS DURING 19 Q. EITHER THE ACTUAL OR THE ESTIMATED REVIEW PERIODS FOR THE 20 BASE FUEL COSTS COMPONENT? 21
- Yes. The Company made the following adjustment as shown on Audit Exhibit 22 Α. ADB-5: 23

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1		Adjustment (A) - True-Up to Billing System Details
2		In March 2018, the Company made an under-recovery adjustment of \$5,807 to account for
3		the true-up of base fuel related costs to billing system details. This adjustment is explained
4		further in the testimony of ORS witness Johnson. ORS agrees with the Company's
5		adjustment to the base fuel costs component.
6		Adjustment (B) - True-up to the Value of Solar
7		In April 2018, the Company made an under-recovery adjustment of \$80,739 to account for
8		the true-up of base fuel related costs to the value of solar. This adjustment is explained
9		further in the testimony of ORS witness Johnson. ORS agrees with the Company's
10		adjustment to the base fuel costs component.
11		Adjustment (C) - Purchased Power
12		In May 2018, the Company made an over-recovery adjustment of \$66,306 to account for
13		the differences between actual and estimated economic purchased power costs and
14		revisions for those purchases with costs exceeding DEC's avoided variable cost. ORS
15		agrees with the Company's adjustment to the base fuel costs component.
16	Q.	DID THE ORS MAKE ANY ADJUSTMENTS OR TRUE-UPS DURING EITHER
17		THE ACTUAL OR THE ESTIMATED REVIEW PERIODS FOR THE BASE FUEL
18		COSTS COMPONENT?
19	A.	Yes. The ORS made the following adjustment as shown on Audit Exhibit ADB-5:
20		Adjustment (D) – Oconee Outage

In May 2018, the ORS made an over-recovery adjustment in the amount of \$159,352 for

South Carolina's portion of the replacement power cost for the outage at DEC's Oconee

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- 1 Unit 3 during July 2017. This adjustment is explained further in the testimony of ORS 2 witness Schellinger.
- 3 Q. PLEASE EXPLAIN ORS AUDIT STAFF'S COMPUTATION OF THE 4 CUMULATIVE (OVER)/UNDER-RECOVERY OF ENVIRONMENTAL COSTS 5 IN AUDIT EXHIBIT ADB-7.
- ORS Audit Exhibit ADB-7 provides details of ORS's calculation of the actual 6 A. 7 cumulative environmental cost over-recovery balance through May 2018 of \$1,461,868, and the estimated cumulative over-recovery balance through September 2018 of 8 9 \$1,425,966. Company witness McGee's testimony (Exhibit 4, pages 1a through 3b) reports 10 a cumulative environmental cost over-recovery balance through May 2018 of \$1,461,871, 11 and the estimated cumulative over-recovery balance through September 2018 of 12 \$1,425,968. The differences between ORS's and the Company's ending balances for May 13 2018 and September 2018 are due to rounding.
- PLEASE EXPLAIN ORS AUDIT STAFF'S COMPUTATION OF THE 14 Q. CUMULATIVE (OVER)/UNDER-RECOVERY OF CAPACITY COSTS IN AUDIT 15 16 EXHIBIT ADB-8.
 - ORS Audit Exhibit ADB-8 provides details of ORS's calculation of the actual A. cumulative capacity cost over-recovery balance through May 2018 of \$910,631, and the estimated cumulative over-recovery through September 2018 of \$396,890. Company witness McGee's testimony (Exhibit 6, pages 1a through 3b) reports a cumulative overrecovery balance through May 2018 of \$910,630, and the estimated cumulative overrecovery balance through September 2018 of \$396,889. The differences between ORS's

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- 1 and the Company's ending balances for May 2018 and September 2018 are due to 2 rounding.
- PLEASE EXPLAIN ORS AUDIT STAFF'S 3 Q. COMPUTATION OF 4 CUMULATIVE (OVER)/UNDER-RECOVERY OF DERP INCREMENTAL 5 **COSTS IN AUDIT EXHIBIT ADB-9.**
- ORS Audit Exhibit ADB-9 provides details of ORS's calculation of the actual 6 A. 7 cumulative DERP incremental cost over-recovery balance through May 2018 of \$966,262, and the estimated cumulative under-recovery balance through September 2018 of 8 9 \$1,724,815. Company witness McGee's testimony (Exhibit 8) reports a cumulative overrecovery balance through May 2018 of \$966,265, and the estimated cumulative under-10 recovery balance through September 2018 of \$1,724,810. The differences between ORS's 11 12 and the Company's ending balances for May 2018 and September 2018 are due to rounding. 13
- DID THE COMPANY MAKE ANY ADJUSTMENTS OR TRUE-UPS DURING 14 Q. 15 EITHER THE ACTUAL OR THE ESTIMATED REVIEW PERIODS FOR THE **DERP INCREMENTAL COST COMPONENT?** 16
- Yes. The Company made the following adjustments as shown on Audit Exhibit 17 A. 18 ADB-9:

Adjustment (E) - True-up to Billing System Details

In March 2018, the Company made an over-recovery adjustment in the amount of \$20,337 to account for an error in their billing system. This adjustment is explained further in the testimony of ORS witness Johnson. ORS agrees with the Company's adjustment to the DERP incremental costs component.

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Adjustment (F) – True-up V	alue	of Solar
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In April 2018, the Company made an under-recovery adjustment in the amount of \$310,604 to account for an error in the calculation of the Net Energy Metering ("NEM") cost components. This adjustment is explained further in the testimony of ORS witness Johnson. ORS agrees with the Company's adjustment to the DERP incremental costs component.

Adjustment (G) - Removal of DERP Expenses

In May 2018, the Company made an over-recovery adjustment in the amount of \$4,649 to account for shared solar expenses that should have been booked to DEP and to remove expenses not associated with DERP. ORS agrees with the Company's adjustment to the DERP incremental costs component.

PLEASE EXPLAIN ORS AUDIT STAFF'S COMPUTATION OF THE CUMULATIVE (OVER)/UNDER-RECOVERY OF DERP AVOIDED COSTS IN AUDIT EXHIBIT ADB-10.

ORS Audit Exhibit ADB-10 provides details of the ORS's calculation of the actual cumulative DERP avoided cost over-recovery balance through May 2018 of \$24,301, and the estimated cumulative under-recovery balance through September 2018 of \$19,458. Company witness McGee's testimony (Exhibit 12, pages 1 through 3) reports a cumulative over-recovery balance through May 2018 of \$24,303, and the estimated cumulative under-recovery balance through September 2018 of \$19,456. The differences between ORS's and the Company's ending balances for May 2018 and September 2018 are due to rounding.

Q. WHAT IS THE RESULT OF ORS'S EXAMINATION?

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1	A.	Based on ORS's examination of the Company's books and records, and the
2		Company's operations under the fuel cost recovery mechanism, ORS determined that,
3		subject to ORS's accounting adjustments, the Company's accounting practices are in
4		compliance with S.C. Code Ann. §§ 58-27-865, 58-39-140, 58-40-20, and prior
5		commission orders.
6		Based on ORS's examination, ORS agrees with the following (over)/under-recovery
7		balances as stated by DEC:
8		 May 2018 environmental cost component over-recovery balance of \$1,461,871;
9		 May 2018 capacity cost component over-recovery balance of \$910,630;
10		• May 2018 DERP incremental cost component over-recovery balance of \$966,265;
11		 May 2018 DERP avoided cost component over-recovery balance of \$24,303;
12		• September 2018 environmental cost component over-recovery balance of
13		\$1,425,968;
14		 September 2018 capacity cost component over-recovery balance of \$396,889;
15		September 2018 DERP incremental cost component under-recovery balance of
16		\$1,724,810; and
17		• September 2018 DERP avoided cost component under-recovery balance of
18		\$19,456.
19		Based on ORS's examination, ORS calculated the following adjusted under-recovery
20		balances for DEC:
21		• May 2018 base fuel costs component under-recovery balance of \$64,403,063; and
22		• September 2018 base fuel costs component under-recovery balance of \$75,453,306
23	Q.	DOES THIS CONCLUDE YOUR TESTIMONY?

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1 A. Yes, it does.

Office of Regulatory Staff Total Fuel Received and Weighted Average Cost Duke Energy Carolinas, LLC For Year Ending May 2018 Docket No. 2018-3-E

Month		Coal	#2 Oil		Natur	Natural Gas	Total Received Cost
	Ton	€9	Gal	69	MCF	69	∽
Jun-17	876,967	966,888,09	529,031	799,635	6,179,665	22,756,469	84,445,100
Jul-17	921,055	68,634,917	503,942	801,207	7,628,095	27,103,884	96,540,008
Aug-17	986,295	72,480,014	631,164	1,086,466	6,979,084	24,790,426	98,356,906
Sep-17	784,392	57,990,721	547,683	1,079,878	6,676,014	23,745,141	82,815,740
Oct-17	601,152	45,196,052	698,485	1,313,234	7,118,152	25,650,671	72,159,957
Nov-17	473,752	35,489,440	917,950	1,849,361	7,974,424	29,632,563	66,971,364
Dec-17	641,256	47,939,490	1,032,151	2,112,772	6,563,643	28,476,853	78,529,115
Jan-18	514,145	39,178,930	14,071,110	33,372,223	6,449,085	66,696,327	139,247,480
Feb-18	770,299	57,769,435	348,712	725,089	6,331,026	26,712,257	85,206,781
Mar-18	867,148	66,574,834	739,183	1,457,219	9,799,735	34,891,268	102,923,321
Apr-18	741,294	57,442,644	414,006	881,581	10,281,315	34,797,936	93,122,161
May-18	723,582	56,253,780	858,215	1,973,513	9,784,044	33,667,761	91,895,054
Total	8,824,348 \$	\$ 665,839,253	21,291,632 \$	47,452,178	91,764,282 \$	378,921,556	\$ 1,092,212,987
Weighted A	Weighted Average Cost \$	\$ 75.45	49	2.23	€9	4.13	

Office of Regulatory Staff Received Coal - Cost Per Ton Comparison Duke Energy Carolinas, LLC For Year Ending May 2018 Docket No. 2018-3-E

	Duk	Duke Energy Carolinas, LLC	arolinas, I	TC	Duk	Duke Energy Progress, LLC	rogress, L	רכ	South Car	olina Elect	South Carolina Electric & Gas Company	Company
Month	Invoice Cost Per Ton \$	Freight Total Cost Per Cost Per Ton Ton \$	Total Cost Per Ton S	Cost Per MBTU \$	Invoice Cost Per Ton \$	Freight Cost Per Ton \$	Total Cost Per Ton	Cost Per MBTU	Invoice Cost Per Ton \$	Freight Cost Per Ton	Total Cost Per Ton \$	Cost Per MBTU \$
Jun-17	47.14	30.44	77.58	3.12	49.79	32.16	81.95	3.21	54.08	25.87	79.95	3.14
Jul-17 Aug-17	46.81	27.05	73.86	2.98	48.23	31.41	/8.36	3.13	53.63	27.14	80.77	3.18
Sep-17	46.35	27.59	73.94	2.96	48.47	31.50	79.97	3.13	54.64	30.70	85.34	3.35
Oct-17	45.76	28.90	74.66	3.04	48.81	32.77	81.58	3.21	54.95	28.31	83.26	3.29
Nov-17	47.00	27.68	74.68	3.08	48.40	30.29	78.69	3.11	55.31	30.31	85.62	3.39
Dec-17	47.97	29.04	77.01	3.13	43.45	30.80	74.25	2.92	54.89	29.69	84.58	3.32
Jan-18	46.67	27.11	73.78	3.11	50.93	32.32	83.25	3.31	55.81	30.41	86.22	3.39
Feb-18	47.35	26.22	73.57	3.03	46.16	32.56	78.72	3.10	57.57	30.94	88.51	3.51
Mar-18	47.89	27.67	75.56	3.14	45.59	25.65	71.24	2.93	56.50	25.87	82.37	3.24
Apr-18	47.25	29.49	76.74	3.17	46.98	35.20	82.18	3.38	56.50	26.18	85.68	3.27
May-18	47.78	29.74	77.52	3.20	47.65	26.89	74.54	3.09	54.80	24.73	79.53	3.13

¹Cost information for Duke Energy Progress, LLC and South Carolina Electric & Gas Company has not been audited as part of this docket.

Office of Regulatory Staff Cost of Fuel Burned for Electric Generation Duke Energy Carolinas, LLC For Year Ending May 2018 Docket No. 2018-3-E

Month	Coal			#2 Oil			Natural Gas	SI	Nuclear		Tota	Total Burned Cost
Jun-17	\$ 74,053,883	89.56%	69	775,525	0.63%	€9	22,756,469	18.30%	\$ 26,745,146	21.51%	89	124,331,023
Jul-17	\$ 99,733,960	64.35%	69	695,393	0.45%	€9	27,103,884	17.49%	\$ 27,446,315	17.71%	69	154,979,552
Aug-17	\$ 84,113,594	61.08%	69	1,252,134	0.91%	69	24,705,273	17.94%	\$ 27,638,720	20.07%	69	137,709,721
Sep-17	\$ 49,922,190	50.37%	69	997,630	1.01%	€9	23,628,561	23.84%	\$ 24,556,576	24.78%	69	99,104,957
Oct-17	\$ 45,698,574	50.13%	6/9	1,070,748	1.17%	69	22,405,227	24.58%	\$ 21,980,499	24.12%	49	91,155,048
Nov-17	\$ 37,735,545	43.09%	€9	1,917,607	2.19%	€9	26,573,652	30.34%	\$ 21,349,394	24.38%	49	87,576,198
Dec-17	\$ 52,649,662	49.46%	6/3	2,537,122	2.38%	69	25,941,334	24.37%	\$ 25,331,093	23.79%	€9	106,459,211
Jan-18	\$ 95,538,124	45.14%	69	\$ 26,747,842	12.64%	69	64,043,518	30.26%	\$ 25,328,094	11.96%	€9	211,657,578
Feb-18	\$ 27,994,141	37.00%	6/3	999,168	1.32%	69	24,078,578	31.82%	\$ 22,598,045	29.86%	69	75,669,932
Mar-18	\$ 55,006,481	48.82%	€9	1,424,117	1.26%	69	31,666,455	28.10%	\$ 24,578,819	21.82%	€9	112,675,872
Apr-18	\$ 35,585,147	40.33%	69	772,525	0.88%	69	30,032,289	34.04%	\$ 21,841,292	24.75%	€9	88,231,253
May-18	\$ 62,287,231	53.87%	€>	\$ 2,191,224	1.89%	↔	28,854,184	24.96%	\$ 22,287,681	19.28%	8	115,620,320
Total	\$ 720,318,532	51.26%	69	\$ 41,381,035 2.94%	2.94%	6/3	\$ 351,789,424	25.04%	\$ 291,681,674	20.76%	100	\$ 1,405,170,665

Office of Regulatory Staff Cost of Fuel Duke Energy Carolinas, LLC For Year Ending May 2018 Docket No. 2018-3-E

Jun-17	69	124,331,023	8	19,587,051	€9	(3,519,115)	69	140,398,959
Jul-17	69	154,979,552	€	22,824,202	64	(2,570,668)	69	175,233,086
Aug-17	69	137,709,721	€\$	26,325,101	~	(3,519,164)	69	160,515,658
Sep-17	69	99,104,957	69	29,912,919	€9	(2,967,228)	69	126,050,648
Oct-17	69	91,155,048	8	29,278,891	€9	(2,282,072)	69	118,151,867
Nov-17	69	87,576,198	49	32,879,990	8	(1,386,869)	69	119,069,319
Dec-17	69	106,459,211	69	37,025,101	€9	(3,717,078)	69	139,767,234
Jan-18	69	211,657,578	89	79,890,215	8	(29,455,868)	69	262,091,925
Feb-18	69	75,669,932	69	29,270,015	€9	(617,598)	69	104,322,349
Mar-18	69	112,675,872	64	18,187,799	69	(6,816,999)	69	124,046,672
Apr-18	69	88,231,253	\$	16,426,857	€\$	(6,866,338)	\$	97,791,772
May-18	69	115,620,320	€9	17,451,954	\$	(4,418,907)	89	128,653,367
Total	69	1,405,170,665	89	359,060,095	\$	(68,137,904)	69	1,696,092,856

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	100	June 2017		July 2017		August 2017		September 2017		October 2017		November 2017		December 2017		January 2018
Total Fuel Costs	s e	140,398,959	s	175,233,086	5	160,515,658	s	126,050,648	s	118,151,867	8	119,069,319	s	139,767,234	8	262,091,925
Avoided Fuel Benefit of SC NEM	8	109,646	s	117,273	s	124,941	w	129,910	sa	131,350	S	132,631	v	141,744	s	188,837
Adjusted System Fuel Costs	"	140,508,605	s	175,350,359	40	160,640,599	N	126,180,558	69	118,283,217	4	119,201,950	s	139,908,978	S	262,280,762
Total System kWh Sales		7,382,797,262		8,213,697,211		8,242,499,300		7,632,543,035		6,668,383,285		6,410,573,998		7,057,410,509		8,697,594,873
NEM Solar Generation kWh		3,385,344		3,620,824		3,857,580		4,010,932		4,057,468		4,097,904		4,379,391		5,835,058
Adjusted System kWh Sales		7,386,182,606		8,217,318,035		8,246,356,880		7,636,553,967	1	6,672,440,753		6,414,671,902		7,061,789,900		8,703,429,931
Fuel Costs per kWh Sales	69	0.019023	s	0.021339	89	0.019480	49	0.016523	и	0.017727	s	0.018583	s	0.019812	s	0.030135
S.C. Retail kWh Sales		1,840,787,327		2,004,626,644		2,045,712,681		1,907,259,402		1,664,779,554		1,604,311,093		1,689,291,924		2,004,246,555
NEM Solar Generation kWh		3,385,344		3,620,824		3,857,580		4,010,932		4,057,468		4,097,904		4,379,391		5,835,058
Adjusted S.C. Retail kWh Sales	-	1,844,172,671		2,008,247,468		2,049,570,261		1,911,270,334		1,668,837,022		1,608,408,997		1,693,671,315		2,010,081,613
S.C. Base Fuel Costs	s	35,082,010	s	42,854,240	v	39,926,018	60	31,580,365	8	29,583,689	49	29,888,588	s	33,555,207	69	60,574,479
Avoided Fuel Benefit of S.C. NEM	s	(109,646)	v	(117,273)	w	(124,941)	s	(129,910)	49	(131,350)	s	(132,631)	s	(141,744)	\$	(188,837)
Adjusted S.C. Base Fuel Costs	5	34,972,364	s	42,736,967	S	770,108,98	s	31,450,455	s	29,452,339	8	756,257,62	s	33,413,463	s	60,385,642
S.C. Retail Fuel Costs Collected	s	29,226,181	N	31,827,457	49	32,479,779	S	30,281,558	49	27,411,581	w	27,695,070	89	29,174,071	89	34,613,338
Fuel Benefits in DERP NEM Incentive	8	(32,924)	s	(35,221)	9	(37,544)	s	(38,035)	s	(53,061)	s	(64,364)	s	(68,793)	89	(92,254)
Adjusted S.C. Retail Costs Collected	5	29,193,257	s	31,792,236	s	32,442,235	s	30,242,523	s	27,358,520	s	27,630,706	s	29,105,278	s	34,521,084
Deferred Fuel Entry- (Over)/Under-Recovery	s	5,779,107	s	10,944,731	8	7,358,842	s	1,207,932	49	2,093,819	69	2,125,251	s	4,308,185	s	25,864,558
Company Accounting Adjustments	s		89		69		s		и		s		s		8	
ORS Accounting Adjustments	8		*	•	69	•	99		69	•	49	•	s	•	S	•
Cumulative (Over)/Under-Recovery Prior Month	s	7,670,353	8	13,449,460	S	24,394,191	s	31,753,033	89	32,960,965	s	35,054,784	s	37,180,035	S	41,488,220
Cumulative (Over)/Under-Recovery	S	13,449,460	S	24,394,191	S	31,753,033	S	32,960,965	3	35,054,784	S	37,180,035	S	41,488,220	65	67,352,778
							l									

Office of Regulatory Staff	Details of the Computation of the (Over)/Under-Recovery of Base Fuel Costs	Duke Energy Carolinas, LLC	June 2017 - September 2018	Docket No. 2018-3-E
Office of Regulatory Staff	betails of the Computation of the (Over)/Under-Recovery of Bass	Duke Energy Carolinas, LLC	June 2017 - September 2018	Docket No. 2018-3-E

	Christian	TOTAL STREET	Ser Standard	SECTION SECON	Actual	STANSON PROPERTY.	06250464250	SOCIAL SECTION	-dan-co	AT THE PERSON NAMED IN	0.007/7/00/0	のから、ようなななない。 は、 は、 は、 は、 は、 は、 は、 は、 は、 は、	Estimated	ted	00000000	AND DESIGNATION AND
		February 2018	100	March 2018		April 2018		May 2018		June 2018		July 2018		August 2018		September 2018
Total Fuel Costs	۵[104,322,349	s	124,046,672	8	277,191,772	S	128,653,367		\$ 148,000,217		S 166,177,129	S	157,600,177	\$	125,880,878
Avoided Fuel Benefit of SC NEM	s	190,035	s	203,056	S	274,934	s	299,867		\$ 313,345		\$ 325,081	\$	333,368	S	341,589
Adjusted System Fuel Costs	S	104,512,384	s	\$ 124,249,728	S	98,066,706	S	128,953,234		\$ 148,313,562		\$ 166,502,210	S (157,933,545	8	126,222,467
Total System kWh Sales	-	7,453,819,034	9	6,443,723,578		6,581,829,396		6,581,962,808		7,397,566,722	4	8,220,497,571		8,409,562,198		7,994,793,000
NEM Solar Generation kWh		5,872,084		6,274,434		8,499,697		9,270,530		9,687,187	7	10,049,999		10,306,180		10,560,367
Adjusted System kWh Sales		7,459,691,118	ľ	6,449,998,012		6,590,329,093		6,591,233,338		7,407,253,909		8,230,547,570		8,419,868,378		8,005,353,367
Fuel Costs per kWh Sales	•	0.014010	v	0.019264	\$	0.014880	S	0.019564		\$ 0.020023		\$ 0.020230	\$ 0	0.018757	49	0.015767
S.C. Retail kWh Sales	-	1,791,706,347	-	1,524,004,658		1,584,758,862		1,640,451,950		1,829,860,637	_	019,919,610	_	2,053,956,924		1,986,163,127
NEM Solar Generation &Wh		5,872,084		6,274,434		8,499,697		9,270,530		9,687,187	7	10,049,999		10,306,180		10,560,367
Adjusted S.C. Retail kWh Sales	-	1,797,578,431	-	1,530,279,092		1,593,258,559		1,649,722,480		1,839,547,824	4	1,989,969,609		2,064,263,104		1,996,723,494
S.C. Base Fuel Costs	s	25,184,583	s	29,478,577	69	23,708,318	S	32,275,758		\$ 36,832,799		\$ 40,256,657	2	38,719,891	49	31,482,852
Avoided Fuel Benefit of S.C. NEM	s	(190,035)	s	(203,056)	S	(274,934)	•	(299,867)		\$ (313,345)	5)	(325,081)	s (1	(333,368)	S	(341,589)
Adjusted S.C. Base Fuel Costs	s	24,994,548	s	125,275,92	s	23,433,384	S	31,975,891	100	\$ 36,519,454	1	39,931,576	S S	38,386,523	8	31,141,263
S.C. Retail Fuel Costs Collected	s	30,942,769	ø	26,319,560	S	27,368,786	\$	28,330,604		\$ 31,601,693		34,193,212	S	35,471,836	69	34,301,037
Fuel Benefits in DERP NEM Incentive	S	(92,837)	ø	(99,216)	8	(133,731)	\$	(145,988)		\$ (152,519)		\$ (158,211)	s (1	(162,233)	S	(166,242)
Adjusted S.C. Retail Costs Collected	۳	30,849,932	5	26,220,344	5	27,235,055	5	28,184,616		\$ 31,449,174	4	34,035,001	~	35,309,603	S	34,134,795
Deferred Fuel Entry- (Over)/Under-Recovery	s	(5,855,384)	s	3,055,177	S	(3,801,671)	SECTION	3,791,275	STREET,	\$ 5,070,280	0	\$75,896,575	S	3,076,920	S	(2,993,532)
Company Accounting Adjustments	s		s	5,807	(A) S	80,739	80,739 (B) S	(66,306) (C)	Q	·		•	S		S	•
ORS Accounting Adjustments	69		s	ď	8	•	8	(0) (25°651)	ê	•			S	4	S	
Cumulative (Over)/Under-Recovery Prior Month	s	67,352,778	•	61,497,394	s	64,558,378	S	60,837,446		\$ 64,403,063	9	69,473,343	3	75,369,918	S	78,446,838
Cumulative (Over)/Under-Recovery	8	61,497,394	s	64,558,378	89	60,837,446	S	64,403,063		\$ 69,473,343		816,69£,27 S	S S	78,446,838	55	75,453,306

	May 2018	September 2018
Cumulative (Over)/Under Base Fuel Costs Component (Audit Exhibit ADB-5)	\$ 64,403,063	\$ 75,453,306
Cumulative (Over)/Under Environmental Costs Component (Audit Exhibit ADB-7)	\$ (1,461,868)	\$ (1,425,966)
Cumulative (Over)/Under Capacity Costs Component (Audit Exhibit ADB-8)	\$ (910,631)	(068,965)
Cumulative (Over) Under DERP Incremental Costs Component (Audit Exhibit ADB-9)	\$ (966,262)	\$ 1,724,815
Cumulative (Over) Under DERP Avoided Costs Component (Audit Exhibit ADB-10)	\$ (24,301)	\$ 19,458
Net Cumulative (Over)/Under-Recovery Balance	\$ 61,040,001	S 75,374,723

Office of Regulatory Staff
Total Environmental Costs
Duke Energy Carolinas, LLC
For Year Ending May 2018
Docket No. 2018-3-E

	M	Magnesium	mm.				THE REAL PROPERTY.			100							
Month	Hydro Carl	ydroxide, Calciu Carbonate, and Other Sorbents	Hydroxide, Calcium Carbonate, and Other Sorbents	Allo	Emission Allowances	ı çol	N N	Ammonia and Urea	id Urea	H	Lime/Limestone	tone	Me	MerControl 8034 Plus	34 Plus	Envi	Total Environmental Costs
Jun-17	\$ 202	149	9.45%	Jun-17 \$ 202.149 9.45% \$(172.533) -8.07%	(5)	8.07%	69	265,764	12.44%	1307	1,841,806	86.18%	69	ı	0.00%	69	\$ 2,137,186
Jul-17	\$ 277,517	7,517	7.90%	\$ 52	529 (0.01%	69	583,308	16.61%		2,651,375	75.48%	69		%00.0	69	3,512,729
Aug-17	\$ 300,560	095'(8.68%	69	748 (0.02%	69	734,775	21.24%	54	2,353,962	68.03%	69	70,082	2.03%	69	3,460,127
Sep-17		3,114	6.70%	6-7	723 (0.03%	€9	513,431	23.25%	64	1,476,925	%98.99	€9	69,862	3.16%	69	2,209,055
Oct-17	\$ 120,170	0,170	7.37%	69	57) -	(4,667) -0.29%	69	235,454	14.43%	64	1,315,905	%99.08	⇔	(35,383)	-2.17%	69	1,631,479
Nov-17	\$ 197	7,531	\$ 197,531 13.85%	69	350 (0.02%	€9	203,627	14.27%	64	1,025,394	71.86%	643	-	%00.0	€9	1,426,902
Dec-17	\$ 242	\$ 242,317	17.10%	69	828	%90.0	69	72,877	5.14%	€A	1,101,725	77.70%	69	-	0.00%	€9	1,417,747
Jan-18	\$ 268,903	3,903	6.32%	€9	384 (%10.0	€9	1,588,589	37.37%	.`¹	2,393,471	56.30%	€9		0.00%	(∕)	4,251,347
Feb-18	Feb-18 \$ 154,283	1,283		10.46% \$ (39,417) -2.67%	. (71	2.67%	69	520,956	35.32%	64	839,085	%68.95	69	ľ	0.00%	69	1,474,907
Mar-18	\$ 235	9,735	Mar-18 \$ 239,735 14.89%	\$ 4,193		0.26%	69	(245,280)	(245,280) -15.23%	64	1,610,972	100.08%	643	1	0.00%	69	1,609,620
Apr-18	Apr-18 \$ 79,017	7,017	5.71% \$	\$ 330		0.02%	69	202,372	202,372 14.64%	€4	1,100,998	79.63%	69	•	0.00%	69	\$ 1,382,717
May-18	\$ 221	1,118	10.02%	May-18 \$ 221,118 10.02% \$ (43,802) -1.99%	72) -	1.99%	69	155,626	155,626 7.06% \$	€4	1,872,920	84.91% \$	↔	_	0.00%	69	\$ 2,205,862
Totals	\$2,451	1,414	9.17%	\$ (252,3.	34) -(0.94%	53	1,831,499	Totals \$2,451,414 9.17% \$ (252,334) -0.94% \$ 4,831,499 18.08% \$ 19,584,538	\$ 1	9,584,538	73.30% \$	69	104,561	0.39%	100	\$ 26,719,678

Audit Exhibit ADB-7 Page 1 of 2

Office of Regulatory Staff
Details of the Computation of the (Over)/Under-Recovery of Environmental Costs
Duke Energy Carolinas, LLC
June 2017 - September 2018
Docket No. 2018-3-E

					Actual				
	June	July	August	September	October	November	December	Jai	January
	2017	2017	2017	2017	2017	2017	2017	2	2018
Total Environmental Costs	\$ 2,137,186	\$ 3,512,729	\$ 3,460,127	\$ 2,209,055	\$ 1,631,479	\$ 1,426,902	\$ 1,417,747	\$ 4,	\$ 4,251,347
Environmental Costs Recovered Through Off-System Sales	\$ (90,659)	\$ (59,768)	\$ (63,757)	\$ (31,721)	\$ (14,835)	\$ (1,203)	\$ (7,727)	s,	(20,446)
Net Environmental Costs	\$ 2,046,527	\$ 3,452,961	\$ 3,396,370	\$ 2,177,334	\$ 1,616,644	\$ 1,425,699	\$ 1,410,020	\$ 4,	\$ 4,230,901
S.C. Retail kWh Sales	1,840,787,327	2,004,626,644	2,045,712,681	1,907,259,402	1,664,779,554	1,604,311,093	1,689,291,924	2,004,	2,004,246,555
Total System kWh Sales Excluding Off-System Sales	7,382,797,262	8,213,697,211	8,242,499,300	7,632,543,035	6,668,383,285	6,410,573,998	7,057,410,509	8,697,	8,697,594,873
S.C Allocation Factor	24.93%	24.41%	24.82%	24.99%	24.97%	25.03%	23.94%	The second second second	23.04%
S.C. Retail Basis of Total Environmental Costs	\$ 510,270	\$ 842,726	\$ 842,948	\$ 544,084	\$ 403,599	\$ 356,796	\$ 337,508	69	974,956
Amounts Billed to Retail Customers	\$ 162,855	\$ 197,696	\$ 197,984	\$ 174,752	\$ 308,910	\$ 516,347	\$ 550,231	ક્ર	661,325
(Over)/Under-Recovery	\$ 347,415	\$ 645,030	\$ 644,964	\$ 369,332	\$ 94,689	(159,551)	\$ (212,723)	49	313,631
Company Accounting Adjustments	S	, 69	ر دی	ر جو	ا دی		, \$9	S)	1
ORS Accounting Adjustments	· •	ı 69	ر دی	•	ر د	. %	· ·	69	-
Cumulative (Over)/Under-Recovery- Prior Month	\$ (2,985,686)	\$ (2,638,271)	\$ (1,993,241)	\$ (1,348,277)	\$ (978,945)	\$ (884,256)	\$ (1,043,807)	\$ (1,	\$ (1,256,530)
Cumulative (Over)/Under-Recovery	\$ (2,638,271)	\$ (2,638,271) \$ (1,993,241)	\$ (1,348,277)	\$ (978,945)	\$ (978,945) \$ (884,256)	\$ (1,043,807)	\$ (1,256,530)	59	\$ (942,899)

Details of the Computation of the (Over)/Under-Recovery of Environmental Costs Duke Energy Carolinas, LLC June 2017 - September 2018 Docket No. 2018-3-E Office of Regulatory Staff

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Audit Exhibit ADB-7

			Actual			Est	Estimated	
	February 2018	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018
Total Environmental Costs	\$ 1,474,907	\$ 1,609,620	\$ 1,382,717	\$ 2,205,862	\$ 2,587,408	\$ 3,205,022	\$ 2,979,261	\$ 1,979,394
Environmental Costs Recovered Through Off-System Sales	\$ (1,662)	\$ (16,082)	\$ (16,396)	\$ (21,941)	\$ (10,786)	\$ (31,105)	\$ (42,519)	\$ (23,963)
Net Environmental Costs	\$ 1,473,245	\$ 1,593,538	\$ 1,366,321	\$ 2,183,921	\$ 2,576,622	\$ 3,173,917	\$ 2,936,742	\$ 1,955,431
S.C. Retail kWh Sales	1,791,706,347	1,524,004,658	1,584,758,862	1,640,451,950	1,829,860,637	1,979,919,610	2,053,956,924	1,986,163,127
Total System kWh Sales Excluding Off-System Sales	7,453,819,034	6,443,723,578	6,581,829,396	6,581,962,808	7,397,566,722	8,220,497,571	8,409,562,198	7,994,793,000
S.C Allocation Factor	24.04%	23.65%	24.08%	24.92%	24.74%	24.09%	24.42%	24.84%
S.C. Retail Basis of Total Environmental Costs	\$ 354,130	\$ 376,888	\$ 328,980	\$ 544,308	\$ 637,353	\$ 764,443	\$ 717,272	\$ 485,792
Amounts Billed to Retail Customers	\$ 584,868	\$ 495,221	\$ 513,174	\$ 530,012	\$ 596,262	\$ 650,086	\$ 672,151	\$ 650,459
(Over)/Under-Recovery	\$ (230,738)	\$ (118,333)	\$ (184,194)	\$ 14,296	\$ 41,091	\$ 114,357	\$ 45,121	\$ (164,667)
Company Accounting Adjustments	, ss	· •	49	· 69	••	· •	ı 69	, \$5
ORS Accounting Adjustments	1 69	. 8		· •	ا ج	ı %		
Cumulative (Over)/Under-Recovery-Prior Month	\$ (942,899)	\$ (1,173,637)	\$ (1,291,970)	\$ (1,476,164)	\$ (1,461,868)	\$ (1,420,777)	\$ (1,306,420)	\$ (1,261,299)
Cumulative (Over)/Under-Recovery	\$ (1,173,637)	\$ (1,173,637) \$ (1,291,970)	\$ (1,476,164)	\$ (1,461,868)	\$ (1,420,777)	\$ (1,306,420)	\$ (1,261,299)	\$ (1,425,966)

Office of Regulatory Staff

Details of the Computation of the (Over)/Under-Recovery of Capacity Costs

Duke Energy Carolinas, LLC

June 2017 - September 2018

Docket No. 2018-3-E

	100	ALL STATE OF THE STATE OF	N. STATE		PEGA275	Selection of the Select	SHAPE.	V	Actual	SECTION AND ADDRESS OF	SANS		1	0.0000000000000000000000000000000000000	30000	
		June 2017		July 2017		August 2017	V	September 2017		October 2017		November 2017	1	December 2017		January 2018
PURPA Purchased Power Capacity Costs	S	2.189.401	S	6,535,281	S	6,524,417	S	3,690,329	69	2,965,616	S	1,128,821	S	848,469	49	1,196,326
Natural Gas Capacity Costs	S		69		S		69		49	3,156,575	49	2,872,247	69	2,358,419	49	2,439,779
Total Costs for the current month	∽	2,189,401	S	6,535,281	S	6,524,417	S	3,690,329	S	6,122,191	S	4,001,068	57	3,206,888	69	3,636,105
S.C. Retail kWh Sales	31	1,840,787,327	588	2,004,626,644	2,	2,045,712,681	I,	,907,259,402	, See	,664,779,554	-	1,604,311,093	1,	,689,291,924	7,	2,004,246,555
Total System kWb Sales Excluding Off-System Sales	7.3	7.382,797,262	~	8,213,697,211	တင်	8,242,499,300	7,	,632,543,035	Ó	6,668,383,285	Ý	6,410,573,998	7,5	,057,410,509	တ်	8,697,594,873
S.C. Allocation Factor		24.93%	Table of the last	24.41%		24.82%		24.99%		24.97%		25.03%		23.94%		23.04%
S.C. Share of Capacity Costs	69	545,894	69	1,594,994	S	1,619,300	S	922,159	69	1,528,421	S	1,001,308	s	767,614	69	837,893
Amount Billed to Retail Customers	S	767,675	69	886,964	S	895,858	S	809,910	69	997,306	S	1,370,773	S	1,504,549	49	1,877,341
(Over)/Under-Recovery	S	(221,781)	S	708,030	8	723,442	S	112,249	49	531,115	S	(369,465)	S	(736,935)	8	(1,039,448)
Company Accounting Adjustments	S		S	-	49	•	S		69		S		S		67	-
ORS Accounting Adjustments	S	,	S		69		S		69		S		S		69	
Cumulative (Over)/Under-Recovery - Prior Month	S	772,577	S	961.078	69	1,278,826	S	2,002,268	69	2,114,517	S	2,645,632	S	2,276,167	69	1,539,232
Cumulative (Over)/Under-Recovery	55	570.796	53	1,278,826	69	2,002,268	S	2,114,517	57	2,645,632	S	2,276,167	S	1,539,232	69	499,784
		-														

		THE REPORT OF		Ac	Actual		THE STATE OF	STATE OF THE PERSON ASSESSED.	SESSES.	The state of the last of the l	STATES OF	Est	Estimated	P	SAN TANKS	
		February 2018		March 2018		April 2018		May 2018		June 2018	1	July 2018	1	August 2018	3	September 2018
PURPA Purchased Power Capacity Costs]∽	1,251,489	ľ∽	1,048,160	~	1,126,844	S	1,089,472	S	2,553,717	s,	3,517,004	S	3,341,130	S	2,076,724
Natural Gas Capacity Costs	S	2,434,128	49	3,043,138	69	4,169,903	59	3,635,827	69	4,758,845	69	4,466,654	49	4,538,367	S	5,220,184
Total Costs for the current month	8	3,685,617	S	4,091,298	S	5,296,747	69	4,725,299	69	7,312,562	65	7,983,658	S	7,879,497	S	7,296,908
S.C. Retail kWh Sales	BARRES I	1,791,706,347		1,524,004,658	1	,584,758,862	1,0	1,640,451,950	1,8	,829,860,637	1,5	979,919,610	2,0	2,053,956,924	1	,986,163,127
Total System kWh Sales Excluding Off-System Sales	7.	7,453,819,034		6,443,723,578	6,	6,581,829,396	9	5,581,962,808	7,3	7,397,566,722	90	8,220,497,571	8,4	8,409,562,198	۲,	,994,793,000
S.C. Allocation Factor		24.04%		23.65%		24.08%		24.92%		24.74%		24.09%		24.42%		24.84%
S.C. Share of Capacity Costs	59	885,928	67	967,633	S	1,275,339	69	1,177,707	69	1,808,834	69	1,922,876	S	1,924,493	S	1,812,786
Amount Billed to Retail Customers	S	1,611,313	69	1,332,103	S	1,372,813	47	1,400,793	69	1,598,041	62	1,773,954	49	1,828,258	S	1,754,995
(Over)/Under-Recovery	65	(725,385)	69	(364,470)	s	(97,474)	so	(223,086)	S	210,793	69	148,922	69	96,235	69	57,791
Company Accounting Adjustments	S		69		s,	-	69		69		69		69	•	69	
ORS Accounting Adjustments	S	-	S		S		69		69		69		જ		S	
Cumulative (Over)/Under-Recovery - Prior Month	S	499,784	63	(225,601)	\$9	(1200,021)	69	(687,545)	69	(910,631)	69	(699,838)	S	(550,916)	69	(454,681
Camulative (Over)/Under-Recovery	54	(225,601)	69	(590,071)	57	(687,545)	69	(910,631)	69	(8838)	69	(550,916)	69	(454,681)	62	068'96E)

Details of the Computation of the (Over)/Under-Recovery of Distributed Energy Resource Program Incremental Costs Duke Energy Carolinas, LLC June 2017 - September 2018 Docket No. 2018-3-E Office of Regulatory Staff

Audit Exhibit ADB-9

						Actual			Mary Park	California Paris	Walneton			
	June	July		August	las Sel	September	0)ctober	NO.	November	Dec	December	Ja	January
	/107	7107	THE PERSON NAMED IN	/107	MANDESON IN	/107	TOTAL PROPERTY.	/102	1	017	7	/10		2010
Purchased Power Agreements	s S	, 62	S	•	69		∽		69		s	,	S	,
NEM* Incentive	\$ 169,485	\$ 180,971	S	192,634	69	200,002	69	163,736	69	147,262	S	160,463	s	167,672
Solar Rebate Program	\$ 151,422	\$ 156,814	49	164,554	69	167,508	ક્ર	168,422	S	187,295	8	11,084	S	212,597
Shared Solar Program			S		69		8	•	69		S	•	S	•
Carrying Costs on Deferred Amounts	\$ 147,560	\$ 152,043	69	157,864	69	162,394	69	163,420	69	171,430	S	92,654	69	204,345
NEM Avoided Capacity	\$ 9,711	\$ 10,386	\$	11,065	69	11,505	s	13,490	69	14,555	s	15,563	S	20,823
NEM Meter Costs	\$ 16,201	\$ 17,397	69	18,360	69	19,145	85	20,242	69	21,154	s	23,133	S	24,187
General and Administrative Expenses	\$ 83,151	\$ 57,925	\$	88,950	69	39,303	65	43,228	69	26,329	s	39,278	S	41,076
Total Incremental Costs	\$ 577,530	\$ 575,536	69	633,427	s	599,912	69	572,538	69	568,025	s	642,175	s	670,700
Revenue Collected	\$ 578,608	\$ 585,411	89	585,871	69	584,504	59	443,815	69	306,391	\$ 3	306,538	69	306,649
(Over)/Under-Recovery	\$ (1,078)	\$ (9,875)	s	47,556	s	15,408	s	128,723	S	261,634	S	335,637	S	364,051
Company Accounting Adjustments	·	, %	S	•	S	-	69		S		es.		S	-
ORS Accounting Adjustments		•	S		89	1	69		s,		S		69	
Cumulative (Over)/Under-Recovery - Prior Month	\$ (4,214,127)	\$ (4,215,205)		\$ (4,225,080)	\$ (4	\$ (4,177,524)	\$ (4	\$ (4,162,116)	\$ (4,	\$ (4,033,393)	5 (3,7	\$ (3,771,759)	\$ (3	\$ (3,436,122)
Cumulative (Over)/Under-Recovery	\$ (4,215,205)	\$ (4,225,080	S (4	(4.177.524)	\$ (4	,162,116)	5 (4	033,393)	\$ (3.	(652,177	5 (3.4	36,122)	\$ (3	(072,071)

		200000000000000000000000000000000000000	Actua		Name of the last		175	Table Street	Distant.	Estin	Estimated	STREET, STREET	99	100
	February 2018	March 2018		April 2018		May 2018		June 2018		July 2018	A 2	August 2018	જ	September 2018
Purchased Power Agreements	5	S	5		5		5		S		s,		S	
NEM* Incentive	\$ 169,047	\$ 181,854	\$ 54	242,518	69	253,803	8	309,394	5 9	322,211	49	331,099	69	338,791
Solar Rebate Program	\$ 221,309	\$ 224,129	S 63	225,437	69	227,696	69	227,720	69	228,127	s	228,647	69	231,204
Shared Solar Program		S	69		69	•	S	•	⇔	t	S	•	49	ı
Carrying Costs on Deferred Amounts	\$ 208,349	\$ 212,970	\$ 0 <i>1</i>	250,667	69	223,757	S	223,626	S	222,510	50	221,655	69	221,940
NEM Avoided Capacity	\$ 20,955	\$ 22,391	S 10	30,199	69	32,939	S	34,607	6 9	36,094	es,	37,592	69	39,277
NEM Meter Costs	\$ 25,555	\$ 27,007	S L	39,136	69	41,256	S	42,877	49	44,490	s,	46,094	49	47,698
General and Administrative Expenses	\$ 54,664	\$ 46,540	S 01	32,573	8	32,239	S	42,733	89	42,733	S	42,733	69	42,733
Total Incremental Costs	\$ 699,879	\$ 714,891	\$ 10	820,530	S	811,690	S	880,957	S	896,165	S	907,820	49	921,643
Revenue Collected	\$ 305,749	\$ 307,566	\$ 99	306,360	69	307,124	S	229,401	69	228,927	S	119'872	89	228,569
(Over)/Under-Recovery	\$ 394,130	\$ 407,325	.S S	514,170	69	504,566	S	651,556	S	667,238	S	679,209	69	693,074
Company Accounting Adjustments		\$ (20,337)	17) (E) S	310,604	(F) S	(4,649) ((3)	•	49		s,		69	
ORS Accounting Adjustments		59	S		69		€2		69		S		69	١
Cumulative (Over)/Under-Recovery - Prior Month	\$ (3,072,071)	\$ (2,677,941)	5	(2,290,953)	\$ (\$ (1,466,179)	S	(966,262)	69	(314,706)	S	352,532	59	\$ 1,031,741
Cumulative (Over)/Under-Recovery	\$ (2,677,941)	\$ (2,290,953	1	\$ (1,466,179)	S	(966,262)	S	(314,706)	69	352,532	\$ 1.	\$ 1,031,741	\$ 1	\$ 1,724,815

* NEM - Net Energy Metering Explanations of Adjustments (E), (F) and (G) are included in testimony of Anthony D. Briseno.

Details of the Computation of the (Over)/Under-Recovery of Distributed Energy Resource Program Avoided Costs
Duke Energy Carolinas, LLC
June 2017 - September 2018
Docket No. 2018-3-E Office of Regulatory Staff

	SCORE OF THE PARTY			The second secon		CONTRACTOR SERVICE AND ADDRESS OF THE PARTY										
	1000	June		July		August	1188	September		October		November	SHE	December		January
		2017		2017		2017	8	2017		2017		2017	2000	2017	S. S. Philips	2018
Purchase Power Agreements	s	9,485	S	4,609	S	(12,571)	s	395	s	326	ક્ક	245	S	169	s	1,880
Shared Solar Program	55	ではははない	S		S		S	Constitution - Constitution	S		49		s	Section - Constitution of	S	SECTION AND ADDRESS.
Total Avoided Costs	S	9,485	S	4,609	S	(12,571)	s	395	S	326	જ	245	S	169	S	1,880
S.C. Retail kWh Sales	1.8	840,787,327		2,004,626,644	7	2,045,712,681		1,907,259,402		,664,779,554		1,604,311,093	1,	1,689,291,924	2	2,004,246,555
Total System kWh Sales Excluding Off-System Sales	7.3	7.382,797,262		8,213,697,211	*	3,242,499,300	i	7,632,543,035	9	5,668,383,285	9	,410,573,998	7,	,057,410,509	œÓ	8,697,594,873
S.C. Allocation Factor	STATE OF STREET	24.93%		24.41%		24.82%		24.99%		24.97%		25.03%		23.94%		23.04%
S.C. Share of Avoided Costs	s	2,365	47	1,125	45	(3,120)	87	86	S	18	S	19	s	40	49	433
Amount Billed to Retail Customers	S	(27,141)	\$	(30,303)	63	(30,801)	45	(28,285)	8	(17,456)	S	(7,643)	S	(9,667)	\$	(14,174)
(Over)/Under-Recovery	S	29,506	S	31,428	S	27,681	S	28,384	S	17,537	S	7,704	s	6,707	÷	14,607
Company Accounting Adjustments	s		5	•	*	•	49	•	55	•	s		S		s	
ORS Accounting Adjustments	50		S		8		S		S		S	,	s		89	•
Cumulative (Over)/Under-Recovery - Prior Month	s	(235,095)	S	(205,589)	89	(174,161)	S	(146,480)	8	(118,096)	S	(100,559)	S	(92,855)	S	(83,148)
Cumulative (Over)/Under-Recovery	55	(205,589	S	(174,161)	S	(146,480)	S	(960'811)	S	(100,559)	S	(92,855)	S	(83,148)	S	(68,541)

	SANGE OF	MRSS284	NAME OF THE OWNER,	ASSOCIATION REPORT	Actual	SACCESSOR.	SESSERVINES.	PETATRICISMINATES	100 C	\$1550 ALTONO	STATE OF THE PARTY OF	ESI	Estimated	Man State		SOUTH THE PARTY.
	Feb 2	February 2018		March 2018	₹ %	April 2018		May 2018		June 2018		July 2018	A 2	August 2018	Sept 20	September 2018
Purchase Power Agreements]"	487	~	23,919	s	17,442	s	424	2	454	<u>~</u>	438	S	377	s	368
Shared Solar Program	S		S	STATES OF THE PARTY OF THE PART	\$		S	STATE STATE	S		s	•	s	-	s	
Total Avoided Costs	5	487	5	23,919	2	17,442	5	424	s	454	r,	438	S	377	s	368
S.C. Retail kWh Sales	1,791	1,791,706,347		1,524,004,658	1,584	1,584,758,862	1,6	,640,451,950	1,8,	1,829,860,637	1,9	019'616'616'1	2,05	2,053,956,924	1,986	1,986,163,127
Total System kWh Sales Excluding Off-System Sales	7,453	7,453,819,034		6,443,723,578	6,581,	6,581,829,396	6,5	5,581,962,808	7,3	7,397,566,722	8,2,	8,220,497,571	8,40	8,409,562,198	7,994	,994,793,000
S.C. Allocation Factor		24.04%		23.65%		24.08%		24.92%		24.74%		24.09%		24.42%		24.84%
S.C. Share of Avoided Costs	s	111	S	5,657	s	4,200	\$	106	s	112	s	105	s	92	S	91
Amount Billed to Retail Customers	S	(10,714)	5	(7,945)	S	(7,919)	8	(7,582)	S	(9,440)	S	(11,502)	S	(11,617)	S	(10,800)
(Over)/Under-Recovery	5	10,831	5	13,602	S	12,119	S	7,688	s	9,552	s	11,607	S	11,709	s	10,891
Company Accounting Adjustments	65		S		S		s	SWITTER STREET	57		S		5	•	49	
ORS Accounting Adjustments	S		49		45				S		s		s		s	
Cumulative (Over)/Under-Recovery - Prior Month	\$	(68,541)	S	(57,710)	S	(44,108)	S	(31,989)	s	(24,301)	S	(14,749)	8	(3,142)	s	8,567
Cumulative (OverWinder-Becovery	G.	(57.710)	5	(44.108)	S	(31,989)	5	(24.301)	S	(14.749)	45	(3,142)	S	8,567	S	19,458